

CLAIMS

1. A method for producing pharmaceuticals or parts of pharmaceuticals or food supplements or parts thereof,
5 by coating substrates with a film-forming coating agent comprising a pigment,
10 where the film-forming coating agent is a (meth)acrylate copolymer having cationic or anionic groups,
15 characterized in that
15 the film-forming coating agent and the pigment are initially present separate from one another as liquid, sprayable, incompatible individual portions in the form of a solution, suspension or dispersion, and
20 are sprayed simultaneously by spray application by means of one or more spray devices which are capable of separate spraying of liquids, singly or together, and their spray beams overlap,
25 in such a way that the incompatible individual portions are mixed during the spraying process, impinge on the substrate and form thereon, after evaporation of the liquid, a uniformly pigmented film coating, resulting in the pharmaceutical or the food supplement or the part thereof.
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35 2. The method as claimed in claim 1, characterized in that the (meth)acrylate copolymer consists of 30 to 80% by weight free-radical polymerized C₁ to C₄ alkyl esters of acrylic or methacrylic acid and 70 to 20% by weight (meth)acrylate monomers having a

- tertiary amino group in the alkyl radical.
3. The method as claimed in claim 1, characterized in that the (meth)acrylate copolymer consists of 40
5 to 60% by weight methacrylic acid and 60 to 40% by weight methyl methacrylate or 60 to 40% by weight ethyl acrylate.
- 10 4. The method as claimed in one or more of claims 1 to 3, characterized in that the substrates are active ingredient crystals, active ingredient-containing cores, tablets, granules, pellets or capsules.
- 15 5. The method as claimed in one or more of claims 1 to 4, characterized in that the pigment incompatible with the coating agent is an aluminum pigment.
- 20 6. The method as claimed in one or more of claims 1 to 5, characterized in that the pigment incompatible with the coating agent is orange yellow S (E110, C.I. 15985, FD&C Yellow 6), indigo carmine (E132, C.I. 73015, FD&C Blue 2),
25 tartrazine (E 102, C.I. 19140, FD&C Yellow 5), Ponceau 4R (E 125, C.I. 16255, FD&C Cochineal Red A), quinoline yellow (E 104, C.I. 47005, FD&C Yellow 10), erythrosine (E127, C.I. 45430, FD&C Red 3), azorubine (E 122, C.I. 14720, FD&C Carmoisine), amaranth (E 123, C.I. 16185, FD&C Red 2), acid brilliant green (E 142, C.I. 44090, FD&C Green S).
- 30 7. The method as claimed in claim 1 or 6, characterized in that two or more two-fluid nozzles or one or more three-fluid nozzles are employed as spray device.

8. The method as claimed in one or more of claims 1 to 7, characterized in that the spray application takes place in a drum coater, a coating pan, a fluidized bed apparatus or a spray sifter.
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9. The method as claimed in claim 8, characterized in that the spray application takes place by means of spray devices as fixed installation.
- 10 10. A pigmented pharmaceutical or food supplement or parts thereof which can be produced by a method as claimed in one or more of claims 1 to 9.
- 15 11. A pigmented pharmaceutical or food supplement or parts thereof which can be produced by a method as claimed in claim 10, characterized in that it is in the form of tablets, granules, pellets, capsules, sachets and powders for reconstitution.
- 20 12. The pigmented pharmaceutical or food supplement or parts thereof as claimed in claim 10 or 11, characterized in that a sealing layer is present between the coating and the substrate.
- 25 13. The pigmented pharmaceutical or food supplement or parts thereof as claimed in claim 12, characterized in that the sealing layer consists of a neutral polymer.
- 30 14. A drum coater, coating pan, fluidized bed apparatus or spray sifter suitable for carrying out a method as claimed in one or more of claims 1 to 9, comprising one or more three-fluid nozzles as spray device.
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15. The use of one or more spray devices for carrying out a method as claimed in one or more of claims 1 to 9.